FIG. 1

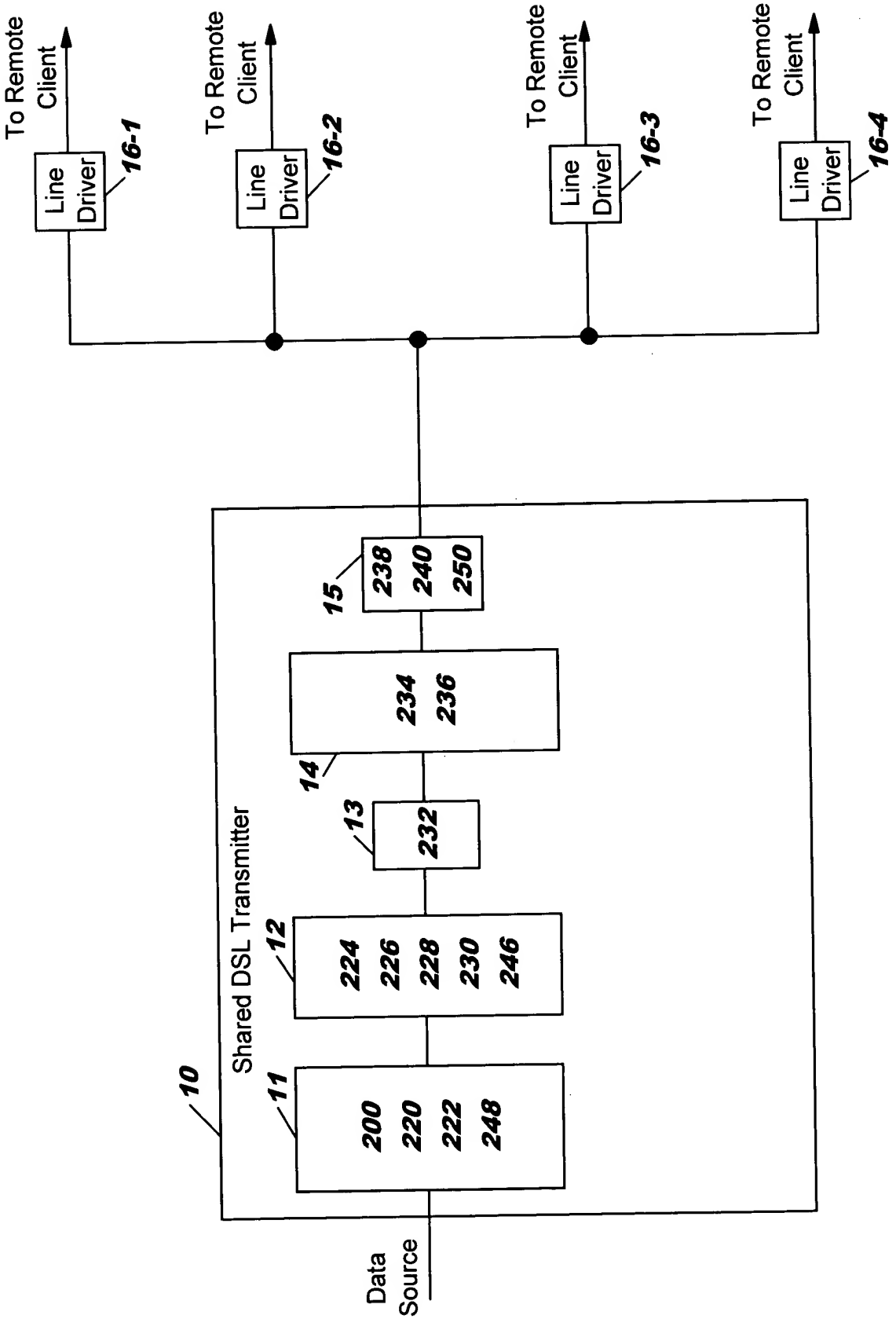

To Remote Client
Line Driver
16-1
To Remote Client
Line Driver
16-2
To Remote Client
Line Driver
16-3
To Remote Client
Line Driver
16-4
10
Shared DSL Transmitter
11
200
220
222
248
12
224
226
228
230
246
13
232
14
234
236
15
238
240
250
Data Source

FIG. 2

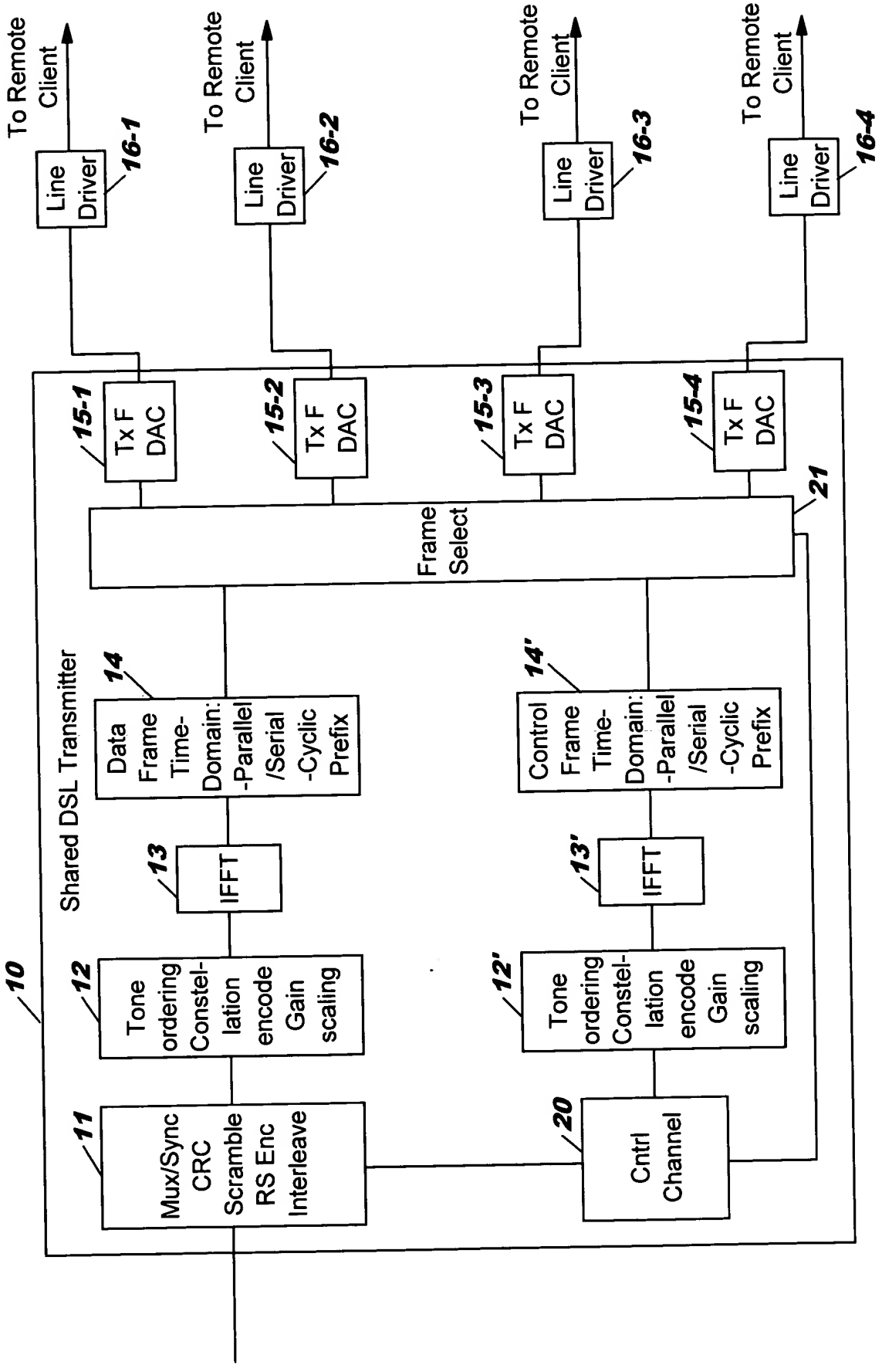

To Remote Client
Line Driver
16-1
16-2
16-3
16-4
15-1
15-2
15-3
15-4
Tx F DAC
Frame Select
21
Shared DSL Transmitter
10
14
14'
Data Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
Control Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
13
13'
IFFT
12
12'
Tone ordering Constel-lation encode Gain scaling
11
20
Mux/Sync CRC Scramble RS Enc Interleave
Cntrl Channel

FIG. 3

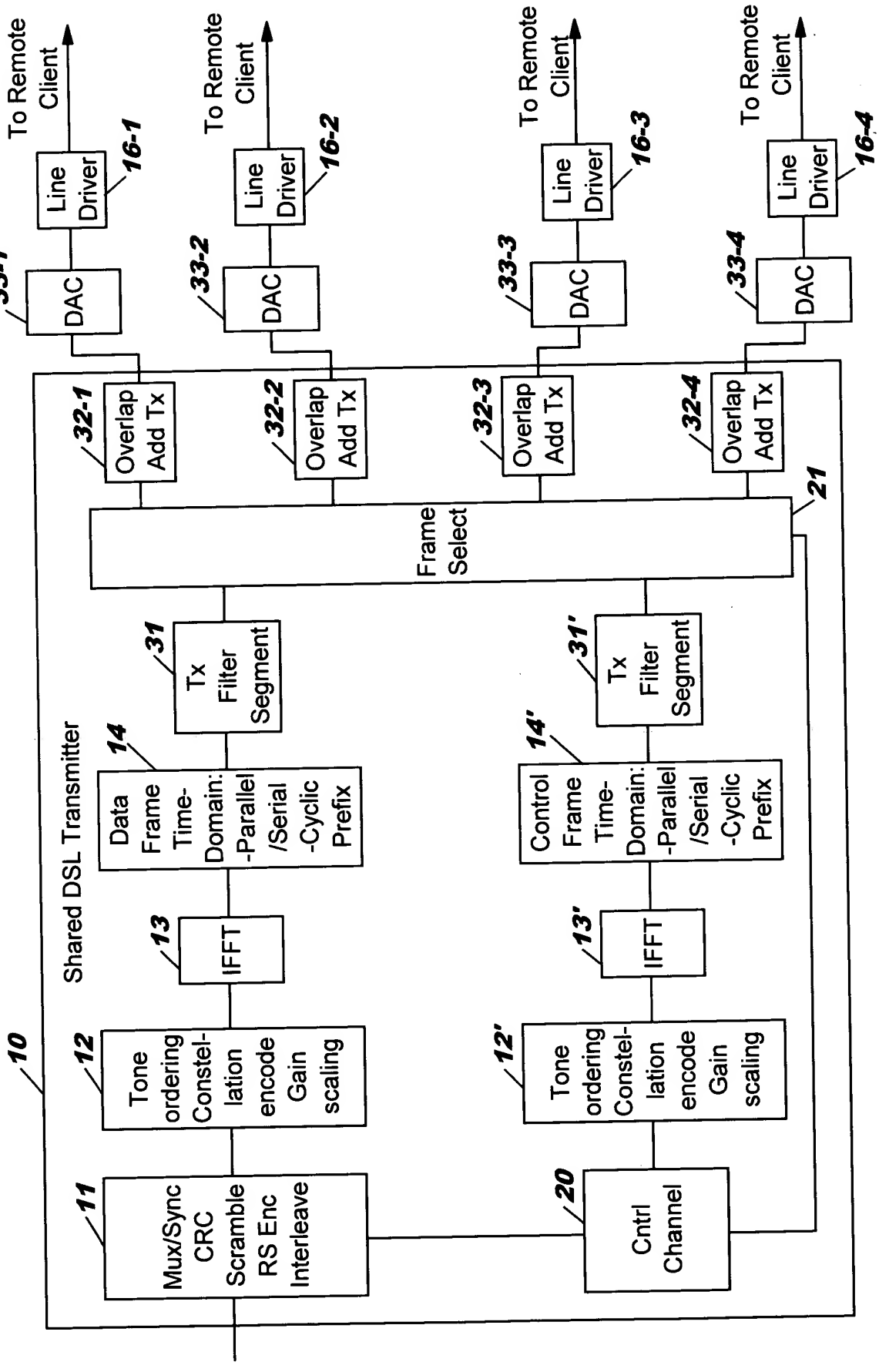
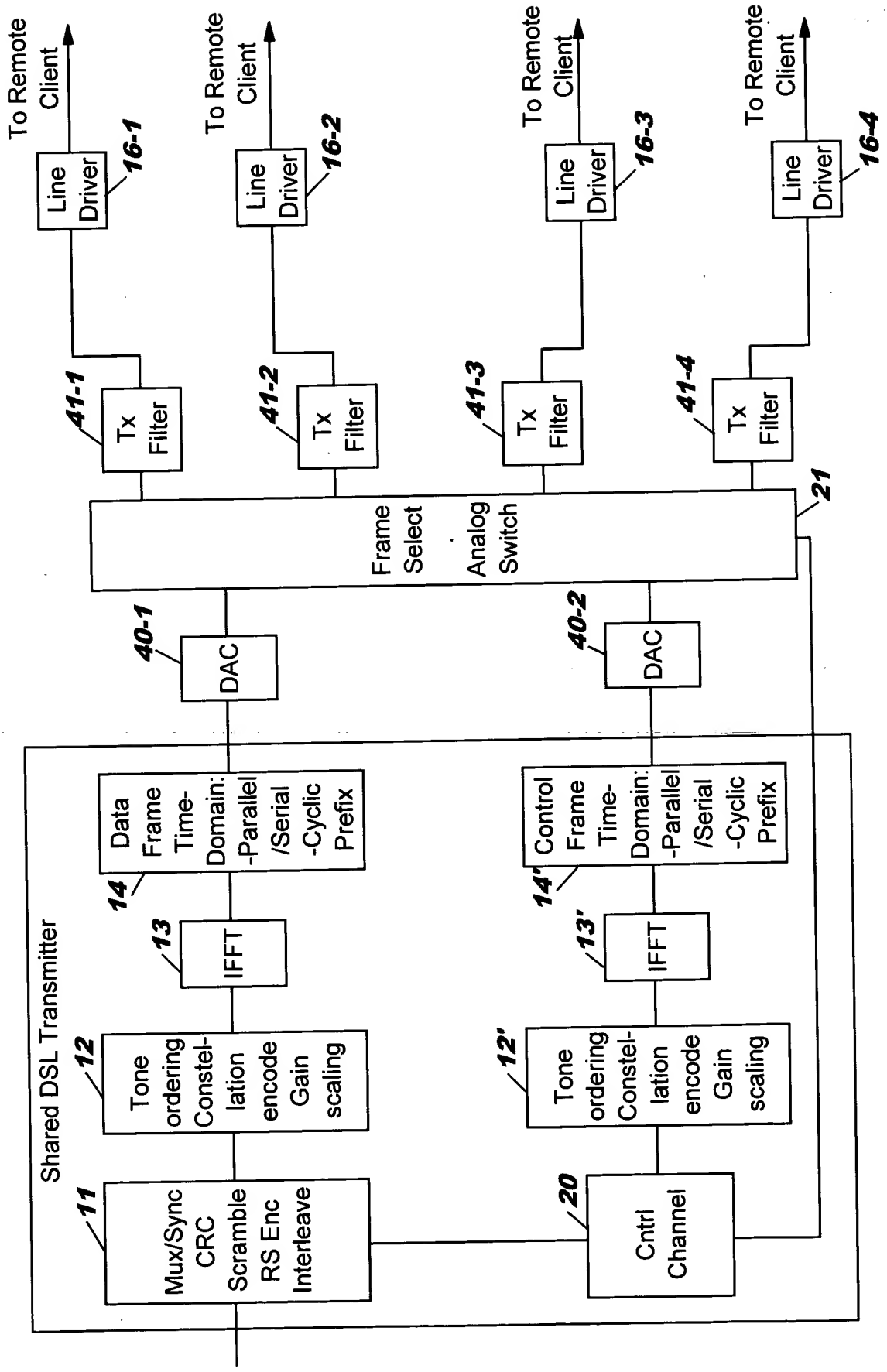

To Remote Client
Line Driver
16-1
16-2
16-3
16-4
DAC
33-1
33-2
33-3
33-4
Overlap Add Tx
32-1
32-2
32-3
32-4
Frame Select
21
Tx Filter Segment
31
31'
Data Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
14
Control Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
14'
IFFT
13
13'
Tone ordering Constel-lation encode Gain scaling
12
12'
Mux/Sync CRC Scramble RS Enc Interleave
11
Cntrl Channel
20
Shared DSL Transmitter
10

FIG. 4


To Remote Client
Line Driver
16-1
16-2
16-3
16-4
41-1
41-2
41-3
41-4
Tx Filter
Frame Select Analog Switch
21
40-1
40-2
DAC
Shared DSL Transmitter
Data Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
Control Frame Time-Domain: -Parallel /Serial -Cyclic Prefix
14
14'
13
13'
IFFT
12
12'
Tone ordering Constel-lation encode Gain scaling
11
20
Mux/Sync CRC Scramble RS Enc Interleave
Cntrl Channel